COURIER V.EVERYTHING™

33.6/28.8 Kbps MODEMS

Quick Reference Card

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Corporate Systems Division
8100 N. McCormick Blvd.
Skokie, IL 60076-2999
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Courier V.Everything Modems

NOTE: *This card contains only the most commonly used AT commands. For more detail, see the Courier Modems Command Reference manual.*

Basic Command Set

Command	Function/Options
$	Displays help for the Basic command set
+++	Escape code
>	Repeat command (up to 10 attempts)
A	Forces the Courier to answer when there is no incoming call
A/	Reexecutes the last-issued command
A>	Repeats the last-issued command until canceled
AT	Attention prefix
B*n*	Sets handshaking options: **B0** ITU-T V.25 answer sequence needed to answer all V.34-type and overseas calls B1 HST mode; Bell answer tone
D*n*	Dials phone numbers and issues commands for dialing options: **P** Pulse dial T Tone dial , (Comma) Pause for 2 seconds ; (Semicolon) Return to command mode after dialing “ Dial the letters that follow W Wait for a second dial tone (if X3 or higher) @ Wait for an answer (with X3, X4, or X7). / Pause for 125 milliseconds. R Reverse frequencies ! Flash the switchhook L? Display the last-dialed number L Redial the last number S*n* Dial number stored in NVRAM at position *n* $ Display help for the dial commands
E*n*	Command mode echo E0 Echo OFF: What you type will not display. **E1** Echo ON: What you type will display.
F*n*	Online local echo F0 Echo ON **F1** Echo OFF
H*n*	On/Off hook control H0 Go on hook (hang up) H1 Go off hook (pick up)
I*n*	Querys the Courier I3 Product name display I4 Current settings I5 NVRAM settings I6 Statistics for preceding call I7 Product configuration I10 Dial security account status I11 High-speed connection report I15 Caller ID information

K*n*	Controls the modem clock
	K0 If online, current call duration
	K1 Displays real time
L*n*	Internal Courier only: Controls speaker volume
	L0 Quietest
	L1 Low
	L2 Medium
	L3 Loudest
M*n*	Controls when the speaker sounds
	M0 Always OFF
	M1 ON until call is negotiate
	M2 Always ON
	M3 ON after last digit is dialed
O*n*	Return online; use with escape code (+++) to toggle between command and online modes
	O0 Return online
	O1 Return online and retrain
Q*n*	Enables or disables the display of result codes
	Q0 Display
	Q1 Suppress (quiet)
	Q2 Suppress when answering
S*r*=*n*	Sets S-register value; *r* is any S-Register; *n* must be a decimal between 0 and 255
S*r*.*b*=*n*	Sets bit-mapped register; *r* is the S-register, *b* is the bit, and *n* is 0 (OFF) or 1 (ON)
S*r*?	Querys contents of S-register *r*
V*n*	Displays result codes verbally or numerically
	V0 Numeric
	V1 Verbal
X*n*	Controls amount of information in result codes
Z	Resets the Courier

Ampersand (&) Command Set

Command	Function/Options
&$	Displays help for the ampersand (&) command set
&A*n*	Enables or disables the display of additional result code subsets
	&A0 Disables the display of ARQ result codes
	&A1 Displays ARQ result codes
	&A2 Displays ARQ result codes and modulation indicators
	&A3 Displays ARQ result codes, modulation indicators, an error control indicator, and a data compression type
&B*n*	Sets the serial port rate
	&B0 Variable
	&B1 Fixed
	&B2 Fixed serial port rate in ARQ mode; variable rate in non-ARQ mode
&C*n*	Controls Carrier Detect (CD)
	&C0 CD always on
	&C1 Normal CD operations

&D*n* Controls Data Terminal Ready (DTR)

- &D0 Ignore DTR
- &D1 Online command mode with DTR toggle
- **&D2** Normal DTR operations

&F*n* Loads configuration template

- &F0 Loads No Flow Control template
- &F1 Loads Hardware Flow Control template
- &F2 Loads Software Flow Control template

&G*n* Sets guard tone

- **&G0** No guard tone (U.S., Canada)
- &G1 Guard tone (Some European countries)
- &G2 Guard tone (United Kingdom); requires B0

&H*n* Transmit Data flow control

- &H0 Disables Transmit Data flow control
- **&H1** Hardware (CTS) flow control
- &H2 Software flow control (XON/XOFF)
- &H3 Hardware and software flow control

&I*n* Received Data software flow control

- **&I0** Disables XON/XOFF flow control
- &I1 Acts on typed commands and passes them to the remote device
- &I2 Acts on typed commands and removes them from the data stream
- &I5 Enables flow control when the connection is not under error control

&K*n* Enables or disables data compression

- &K0 Disable
- **&K1** Auto enable/disable
- &K2 Enable
- &K3 Selective data compression (V.42 *bis* only)

&L*n* Line type

- **&L0** Normal phone line
- &L1 Dedicated or leased line

&M*n* Error Control

- &M0 Normal mode; no error control
- **&M4** Normal/ARQ mode
- &M5 Asynchronous ARQ mode

&N*n* Connection rate

&N0 Variable connection rate

&N1	300 bps	&N9	16.8 Kbps
&N2	1200 bps	&N10	19.2 Kbps
&N3	2400 bps	&N11	21.6 Kbps
&N4	4800 bps	&N12	24.0 Kbps
&N5	7200 bps	&N13	26.4 Kbps
&N6	9600 bps	&N14	28.8 Kbps
&N7	12.0 Kbps	&N15	31.2 Kbps
&N8	14.4 Kbps	&N16	33.6 Kbps

&R*n* Received Data (RTS) hardware flow control

- &R0 Delay clear to send (CTS) response after RTS
- &R1 Ignore RTS
- **&R2** Send data to the computer on receipt of RTS

&S*n*	Data Set Ready (DSR) signal from Courier to computer
	&S0 DSR always on
	&S1 Originate mode: Send DSR after dialing Answer mode: Send DSR after tone
	&S2 Pulsed DSR with CTS following Carrier Detect (CD)
	&S3 Same as &S2, but without CTS
	&S4 Simultaneous DSR and CD
	&S5 Send DSR, and follow CTS with CD
&W	Writes the current settings to NVRAM
&Z*n*=*s*	Stores up to 10 phone number strings in NVRAM at position *n* where *n* = 0–9
&Z*n*?	Displays the stored phone number
&ZC=*s*	Stores command string *s* in NVRAM
&ZC?	Displays the stored command string

Percent (%) Command Set

Command	Function/Options
#%	Displays help for the percent (%) command set

For the complete set of commands, refer to Chapter 9, Remote Access, in the Courier Modems Command Reference manual.

Octothorpe (#) Command Set

Command	Function/Options
#$	Displays help for the octothorpe (#) command set
#CID=*n*	Controls Caller ID settings
	#CID=0 Disables Caller ID detection and reporting
	#CID=1 Enables Caller ID with formatted output
	#CID=2 Enables Caller ID with unformatted output
	#CID=3 Enables Caller ID with formatted output and supressed name
	#CID=4 Enables Caller ID, but retains it in the Courier's memory instead of transmitting the information to the computer
	#CID=? Displays the current caller setting
	#CID=? Displays available Caller ID actions

S-Registers

Register	Default	Function
S0	0	Sets the number of rings before Auto Answer
S1	0	Counts and stores number of rings from incoming calls
S2	43	Stores the code for the escape code character; Default is +
S3	13	Stores the code for the carriage return character
S4	10	Stores the code for the line feed character
S5	8	Stores the code for the backspace character
S7	60	Sets the number of seconds the Courier waits for carrier
S8	2	Sets the number of seconds for the pause (,) dial command option and the pause between command reexecutions

S9	6	Sets the duration, in tenths of a second, of remote carrier signal before recognition by the Courier
S10	7	Sets the duration, in tenths of a second, that the Courier waits after loss of carrier before hanging up
S11	70	Set duration and spacing, in milliseconds, of dialed tones
S12	50	Sets the duration, in 50ths of a second, of the guard time for the escape code sequence
S13	0	Bit-mapped register:

Bit	Value	Result
0	1	Reset when DTR drops
1	2	Reverses normal Auto Answer
2	4	Disables pause before result code display
3	8	External Couriers only: On DTR signal, Auto Dial the number stored in NVRAM at position 0
4	16	At power on/reset, Auto Dial number stored in NVRAM at position 0
5	32	Disable HST
6	64	Disable MNP Level 3
7	128	Hardware reset

S14	1	Bit-mapped register:

Bit	Value	Result
0	1	Disconnects on escape code
1	2	Sends result codes only when originating

S15	0	Bit-mapped register:

Bit	Value	Result
0	1	Disables high-frequency equalization
1	2	Disables online fallback
2	4	HST only: Disables 450 bps backchan nel
3	8	Sets non-ARQ Transmit buffer to 128 bytes
4	16	Disables MNP Level 4
5	32	Set backspace key to delete
6	64	Unusual MNP incompatibility
7	128	Custom applications only

S19	0	Sets the duration of the inactivity timer, in minutes
S21	10	Length of break in ARQ mode, in 10-millisecond units
S22	17	Stores the ASCII code for XON
S23	19	Stores the ASCII code for XOFF
S24	150	Sets the duration, in 20-millisecond units, of pulsed DSR signals
S25	5	Sets DTR recognition time in 10-millisecond units
S26	1	Sets the duration, in 10 millisecond units,of delay between RTS and CTS

S27	0	Bit-mapped register:

Bit	Value	Result
0	1	Enables V.21 modulation at 300 bps
1	2	Enables unencoded V.32 modulation
2	4	Disables V.32 modulation
3	8	Disables 2100 Hz answer tone
4	16	*See Bit 4 and Bit 5 below*
5	32	*See Bit 4 and Bit 5 below*
7	128	Unusual software incompatibility

Bit 4	*Bit 5*	*Result*
0	0	Complete handshaking sequence
16	0	Disables MNP
0	32	Disables V.42 detection and LAPM
16	32	Disables detection phase

S28	8	Sets duration, in tenths of a second, of extra 3000/600 Hz answer tones
S29	20	Sets duration, in tenths of a second, of the V.21 answer tone
S32	9	External Couriers only: Assigns the Voice/Data switch function
S34	0	Bit-mapped register:

Bit	Value	Result
0	1	Disables V.32 *bis*
1	2	Disables enhanced V.32 *bis*
2	4	Disables Quick V.32 Retrain
3	8	Enables V.23 modulation
4	16	External Couriers only: Forces MR LED to show DSR
5	32	Enables MI/MIC
6	64	Disables remote access busy message
7	128	Disables V.32 *terbo*

S38	0	Sets duration, in seconds, before a forced hang up
S41	0	Sets number of allowable attempts for remote access
S42	126	Stores the ASCII code for remote access escape
S43	200	Sets the guard time, in 50ths of a second, for the remote access sequence
S44	15	Sets the interval, in seconds, between losing carrier and reestablishing a connection
S51	0	Bit-mapped register:

Bit	Value	Result
0	1	Disables MNP/V.42 for V.22
1	2	Diables MNP/V.42 for V.22 *bis*
2	4	Disables MNP/V.42 for V.32/V.32 *bis*/ V.32 *terbo*
6	64	Disables selective reject
7	128	Enables handset exclusion delay

S53	0	Bit-mapped register:

Bit	Value	Result
0	1	Enables dial security
1	2	Enables prompting
2	4	Enables local access password protection

S69	0	Bit-mapped register:	
	Bit	Value	Result
	0	1	Disables Plug and Play signaling
	1	2	Enables carrier loss redial
S70	0	Bit-mapped register:	
	Bit	Value	Result
	0	1	Enables recognition of Ring A
	1	2	Enables recognition of Ring B
	2	4	Enables recognition of Ring C
	3	8	Enables recognition of Ring D

DIP Switches

NOTE: *Applies to all Couriers except the PC Card version.*

Switch	Factory Setting	Functions	
1	OFF*	OFF	Normal response to Data Terminal Ready (DTR) signal
		ON	Ignore DTR signal
2	OFF	OFF	Verbal result code format
		ON	Numeric result code format
3	ON	OFF	Suppress result codes
		ON	Display result codes
4	OFF	OFF	Echo offline commands
		ON	Don't echo offline commands
5	ON	OFF	Auto answer
		ON	Don't auto answer
6	OFF	OFF	Send Carrier Detect (CD) signal normally
		ON	Always send CD
7	OFF	OFF	Display all result codes
		ON	Display result codes only when originating
8	ON	OFF	Ignore AT commands (dumb mode)
		ON	Act on AT commands (smart mode)
9	OFF	OFF	Disconnect on receipt of +++
		ON	Enter online command mode on receipt of +++
10	OFF	OFF	Load the configuration that is stored in non-volatile memory (NVRAM)
		ON	Load the &F0 configuration from read-only memory (ROM)

*Default setting for the Courier Modem for Macintosh is DIP switch 1 ON.

Contacting U.S. Robotics

Customer Support Hotline	(800) 550-7800
BBS	(847) 982-5092
Fax on Demand	(800) 762-6163
	(847) 676-8536
E-mail	support@usr.com
World Wide Web	http://www.usr.com